

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Pharmacology (1)
Course number	PHPT4310
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - -	To teach students the importance of drug usage in disease therapy.
2 - -	Students should evaluate drug benefits vs drug adverse effect.
3 - -	Students should be able to determine best drugs for disease therapy.

Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> * a- students should learn the nature of drugs, and their sources. * b- students should learn the various ways of drugs intake. * c- Students should learn about the biological variability of drug action. * d- Students should learn about drug safety vs drug toxicity. * e- Students should know how drugs produce their action (MOA). * f- Students should know the activity of the autonomic nervous system, and how drugs influence its action. * g- Students should learn how drugs alter sympathetic nerve activity on various organs and in disease states. * h- Students should learn about drugs that influence Parasymp.N.system activity on various organs and disease.
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Course Contents

- 1 - Part I- GENERAL PRINCIPLES OF PHARMACOLOGY
- 2 - Introduction to General Pharmacology
- 3 - Dose-Response Relationships
- 4 - Drug Receptors
- 5 - Signal Transduction Systems
- 6 - Pharmacogenetics and Pharmacogenomics
- 7 - Part II- AUTONOMIC NERVOUS SYSTEM AND NEUROMUSCULAR JUNCTION
- 8 - Functional and Neurochemical Organization of the Autonomic Nervous System
- 9 - Cholinergic Agonists and Antagonists
- 10 - Adrenergic Receptor Agonists
- 11 - Adrenergic Receptor Antagonists
- 12 - Neuromuscular transmission and Drugs (Muscle Relaxants)
- 13 - Part III- MEDIATORS AND MODIFIERS OF TSSUE
- 14 - The Eicosanoids
- 15 - Anti-inflammatory Analgesics
- 16 - Autacoids
- 17 - Histamine and Antihistamines

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Midterm Exams Reports, presentations	one hour	50%
final exam	two hours	50%

Books and References

Course note	[1] The Pharmacological Basis of Therapeutics By Goodman and Gilman's 12th Edition (2014)
	[2] Pharmacology By Rang, H.P; Dale, M.M; Ritter, J.M. 6th Edition, (2007)
	[3] Basic and clinical Pharmacology By Bertram G. katzung. 11th Edition, (2009)
	[4] Modern Pharmacology With Clinical Applications By Charles, R.C. and Robert, R. S. 6th Edition, (2003).
	[5] Basic Pharmacology: Understanding Drug Action and Reactions. By Maria A Hernandez; Appu Rathinavelu 1st Edition, (2006)
	[6] Brody's Human Pharmacology. By By Lynn Wecker; PHD; Lynn M Crespo; George Dunaway; Carl Faingold and Stephanie Watts. 5th Edition. (2010)